What Is Claimed Is:

1. A camera for film photography and electronic photography comprising:

film photography means for exposing a subject image on a film;

digital photography means for picking up said subject image with a solid-state image-pickup element and converting it into a digital image signal;

first photometry means for measuring the brightness of the subject with a photometry element;

second photometry means for actuating said digital photography means and measuring the brightness of said subject based on the image signal thus obtained;

first setting means for actuating said first photometry means and setting the exposure conditions of said film in said film photography means based on the photometry results;

second setting means for setting image-pickup conditions of said digital photography means based on the photometry output of said second photometry means;

control means for controlling said film photography means based on the exposure conditions set by said first setting means and controlling said digital photography means based on

the image-pickup conditions set by said second setting means when a release operation is conducted; and

initial conditions setting means for setting the initial image-pickup conditions in said second photometry means, said initial conditions setting means actuating said first photometry means when said camera operation is started and setting said initial image-pickup conditions based on the photometry results.

2. The camera for film photography and electronic photography according to claim 1, wherein said initial conditions setting means sets the initial value of the electronic shutter speed of said digital photography means or the initial value of the gain of an amplification circuit based on the photometry output of said first photometry means.

3. The camera for film photography and electronic photography according to claim 1, wherein said digital photography means comprises a plurality of optical filters for adjusting the amount of light incident on said solid-state image-pickup element, and said initial conditions setting means conducts the initial setting of said optical filters based on the output of said first photometry means.

4. The camera for film photography and electronic photography according to claim 1, further comprising starting means for making the operation state of said camera shift from

the power saving state to the operation state in response to a manual operation, wherein said initial conditions setting means actuates said first photometry means after said camera has been started by said starting means.

5. The camera for film photography and electronic photography according to claim 1, wherein said first photometry means comprises a photometry element and a photoelectric current processing circuit for processing the photoelectric current output from said photometry element.

6. The camera for film photography and electronic photography according to claim 1, wherein said initial conditions setting means sets at least one of the following: an amount of subject light incident on said solid-state image-pickup element, an electronic shutter speed of said solid-state image-pickup element, and a gain during amplification of the output signal of said solid-state image-pickup element.

7. A camera for film photography and electronic photography comprising:

film photography means for exposing a subject image on a film;

digital photography means for imaging said subject image with a solid-state image-pickup element and converting it into a digital image signal;

photometry means for measuring the brightness of the subject with a photometry element;

initial conditions setting means for actuating said photometry means when said camera operation is started and setting the initial image-pickup conditions of said digital photography means based on the photometry value obtained as a result of said photometry actuation;

image-pickup conditions setting means for actuating said digital photography means under the image-pickup conditions set by said initial conditions setting means and setting the image-pickup conditions of the next cycle based on the subject brightness values thus obtained; and

exposure conditions setting means for actuating said photometry means in response to a release operation and setting the exposure conditions of said film exposure means based on the photometry values obtained by said photometry operation.

8. A camera comprising:

digital photography means for picking up digital images of a subject;

photometry means for measuring the brightness of the subject with a photometry element; and

setting means for setting the image-pickup conditions of the next cycle based on the past image-picked-up results of said digital photography means, wherein the initial image-

pickup conditions of said digital photography means are set based on the output of said photometry means.

9. The camera according to claim 8, wherein the initial photography conditions of said digital photography means are set based on the output of said photometry means obtained when the operation of said camera is started.

10. A camera comprising:

a start switch of said camera;

an image-pickup element;

an image-pickup element drive circuit for driving said image-pickup element;

a signal processing circuit for processing the image signal that is formed by said image-pickup element;

a photometry element for measuring the brightness of a subject;

a photoelectric current processing circuit for processing the photoelectric current output from said photometry element; and

a CPU for actuating said photometry element in response to an operation of said start switch and instructing the initial operation conditions of said image-pickup element to said image-pickup element drive circuit based on the data on the brightness of the subject processed by said signal processing circuit.

11. The camera according to claim 10, wherein said image-pickup element drive circuit, in image-pickup operation of the second cycle and subsequent cycles of said image-pickup element, sets the operation conditions of the next cycle based on the image signal obtained by the previous image-pickup operation.